Aim

Create a dataframe with random values, convert some to NaN, and highlight NaN values using Pandas.

Algorithm

- 1. Import required libraries
- 2. Create a dataframe with random values
- 3. Convert some values to NaN
- 4. Use Pandas styling to highlight NaN values
- 5. Display the styled dataframe

Code

```
import pandas as pd
import numpy as np

np.random.seed(42)

df = pd.DataFrame(np.random.rand(10, 4), columns=['A', 'B', 'C', 'D'])

df.iloc[1, 2] = np.nan

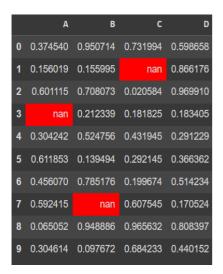
df.iloc[3, 0] = np.nan

df.iloc[7, 1] = np.nan

def highlight_nan(val):
    return 'background-color: yellow' if pd.isna(val) else ''

styled_df = df.style.applymap(highlight_nan)
styled_df
```

Output



Result

Program creates a 10x4 dataframe, replaces some values with NaN, and highlights NaN cells in yellow using Pandas styling.